StarBridge

Aethra ADSL Modem/Router line

EB1030: Ethernet

EB1040: Ethernet & USB

Easy Start

Version 1.0

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Introduction

Thank you for your purchase of the ADSL Modem Router! The ADSL Modem Router provides you with a high-speed broadband Internet connection using your existing phone line that at the same time allows you to make phone calls.
The ADSL Ethernet & USB Modem Router can be connected to any computer/ notebook with a USB Port or 10/100 Base-T Ethernet card. For multiple users connection, you may connect your computers/notebooks to both the Ethernet Port and USB Port on the ADSL Router at the same time or expand the Ethernet connection of the ADSL Router with an Ethernet Hub / Switch.
This documentation assumes that you have already installed an Ethernet card on your computer/notebook.

Minimum System Requirements

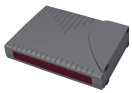
- Pentium® MMX 233MHz
- A CD-ROM Drive
- *Ethernet card installed with TCP/IP Protocol (required only if you are connecting to the ETHERNET port of your ADSL Modem/Router)*

Or

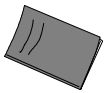
- *USB Port (required only if you are connecting to the USB Port of your ADSL Modem/Router)*
- Host Operating Systems support for Ethernet and USB ports:
  Windows® 98/98 SE
  Windows® 2000
  Windows® Me
  Windows® XP
- Host Operating Systems support only for Ethernet port:
  Windows® NT
  Machintosh®
  Linux® and UNIX
- Web Browser support:
  Microsoft Internet Explorer 4.0 (or later versions)
  Netscape® Navigator 3.02 (or later versions)

ADSL Modem/Router Package

ADSL Modem/Router Ethernet & USB



Easy Start Manual



installazion CD

Power Adapter (DC12V)

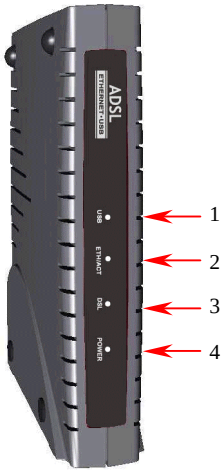
Telefonico Cable (RJ-11)

USB Cable (only EB1040) (blu)

Ethernet Cable (yellow) UTP CAT-5 (RJ-45)

ADSL Modem/Router Overview

Front Indicators



1) USB (only EB1040)

Lights up when the USB device driver is successfully installed in your Computer/Notebook

2) ETH/ACT

Lights up when the Ethernet cable is properly connected from your ADSL Modem/Router to the Ethernet Card.

Flickers when the ADSL is transmitting/receiving data.

3) DSL

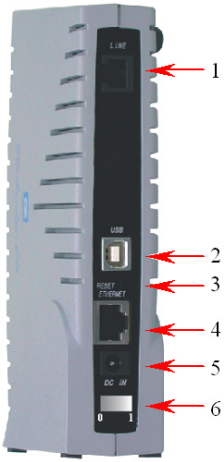
Lights up when the ADSL connection is established.

Flickers when the ADSL Modem/Router is trying to establish a connection with the ADSL Service Provider.

4) POWER

Lights up when power is supplied to the ADSL Modem/Router.

Back Panel



1) LINE

Telephone jack (RJ-11) to connect to your Telephone Wall Socket (ADSL line).

2) USB (only EB1040)

USB port to connect to the USB port on your computer/notebook.

3) RESET

To reset your ADSL Router to factory default settings. (All customized settings that you have saved will be lost!) Please refer to the below footer[1] on how to activate the reset function.

4) ETHERNET

10/100 Base-T Ethernet jack (RJ-45) to connect to your Ethernet Network card or Ethernet Hub / Switch.

5) DC IN

To connect the Power Adapter that comes with your package.

6) SWITCH (Optional)

Switch of the low voltage DC power.

1 To activate the reset function:

- Ensure that your ADSL Router is powered on.

-Use a paper clip or a pencil tip to depress the reset button and release. At this point, the DSL indicator light will go off, followed by the USB and ETHERNET indicators. The reset is in progress.

-When the DSL indicator starts blinking, it means that the reset process is completed. The default settings are now restored.

- ADSL line is established once the DSL indicator lights up.

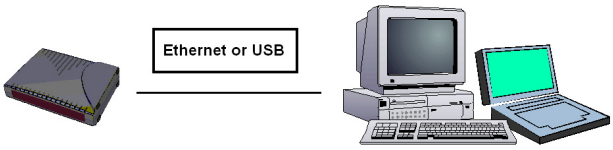
1. Connecting the ADSL Modem/Router to Your Computer/Notebook

Power off your Computer/Notebook or/and any connected devices before connecting to the ADSL Router!

To connect to your ADSL Modem/Router, you need to have either an Ethernet Port or a USB Port present on your Computer/Notebook.
(See the note on the following page if you are not sure of how the Ethernet and USB Port looks like)

1.1.1 For Single User Connection

The following shows a typical single-user connection.
Check if your Computer/Notebook has an Ethernet Port.



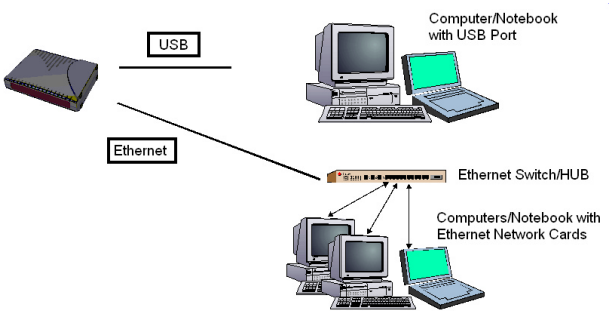
Computer/Notebook with Ethernet Network Card or USB Port

-If an Ethernet Port is present, please proceed to section **1.1.2(a) Connecting to the Ethernet.**
- If an Ethernet Port is not present, locate the USB Port on your Computer/ Notebook and proceed to section **1.1.2(b) Connecting to the USB.**

1.1.2 For Multiple-Users Connection

You may connect one computer/notebook to the Ethernet Port and another one to the USB Port on the ADSL Modem/Router at the same time. Refer to both section **1.1.2(a) Connecting to the Ethernet** and section **1.1.2(b) Connecting to the USB for the connections**
For more than 2 Computers/Notebooks connections, you may also expand the Ethernet connection by connecting the ADSL Modem/Router to an Ethernet Switch/ Hub.

See the following illustration.



For details on the connection and types of Ethernet Network cable to use with the Ethernet Switch/Hub, please refer to the documentation that comes with your Ethernet Switch/Hub.

Proceed to **1.2.**

NOT SURE HOW THE ETHERNET/USB PORT LOOKS LIKE?

The following are some tips to help you locate your Ethernet and USB Ports on your Computer/Notebook. Alternatively, you may refer to the documentation that comes with your Computer/Notebook.

Locating the Ethernet Port on your Computer/Notebook

Most Computers/Notebooks have labels describing the Ports. For Ethernet Port, you will see either **ETHERNET, ETH or RJ45** labeled near the Port. If your Computer/Notebook does not have such descriptions, try the following:

- **Picture A** gives the illustration of an Ethernet Port. All Ethernet Ports have 8 conductors on it. Do not mistaken with the LINE Port (Picture B) that has only 6 conductors.
- The Ethernet Port is slightly bigger than the LINE Port.

A. ETHERNET:

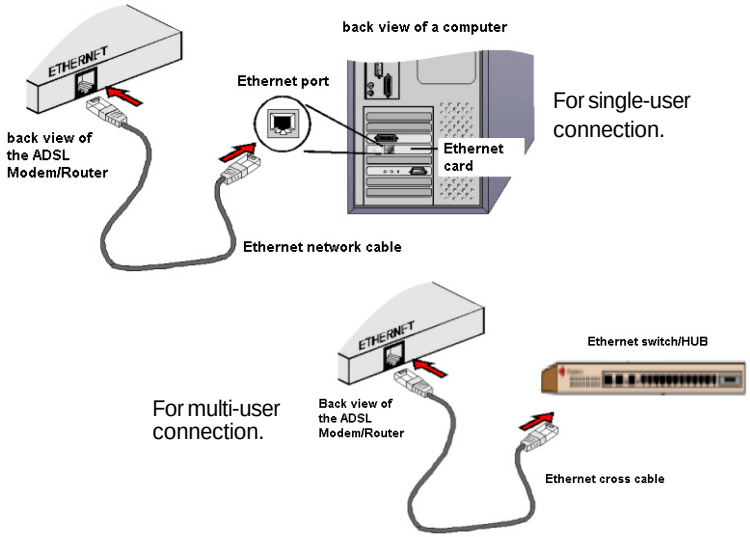
B. LINE:

LOCATING THE USB PORT ON YOUR COMPUTER/NOTEBOOK

The USB Port on your Computer/Notebook can often be identified by the label USB or the icon:

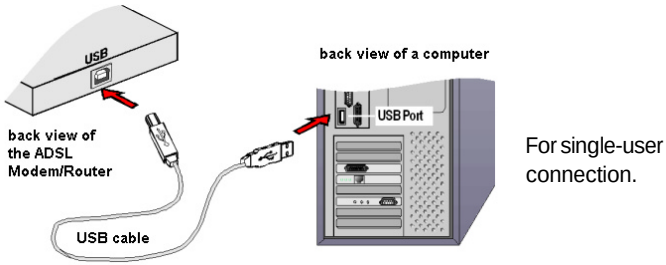
1.1.2(A) Connecting to the Ethernet

(This connection is not required if you are connecting to an Ethernet Switch/Hub for multiple-users connection).



You may now proceed to **1.2**

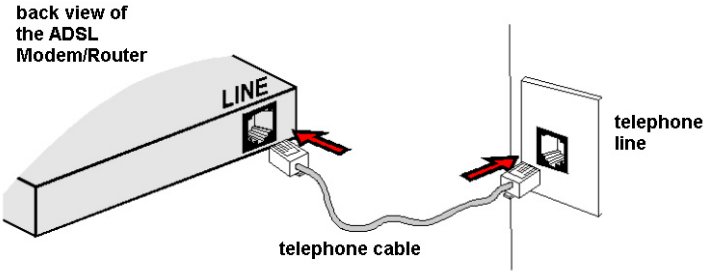
1.1.2(B) Connecting to the USB



You may now proceed to **1.2**

1.2 Connecting to the ADSL Line

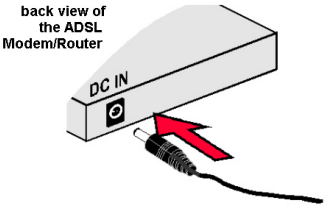
Connect your ADSL Router to the ADSL line with the telephone cable.



ATTENTION The user is advised to connect each telephone set to the wallet socket, through an **ADSL microfilter**, according to the examples illustrated below.

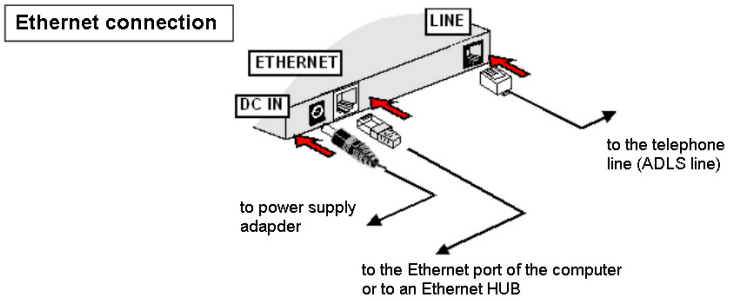
1.3 Power Supply of the Modem/Router

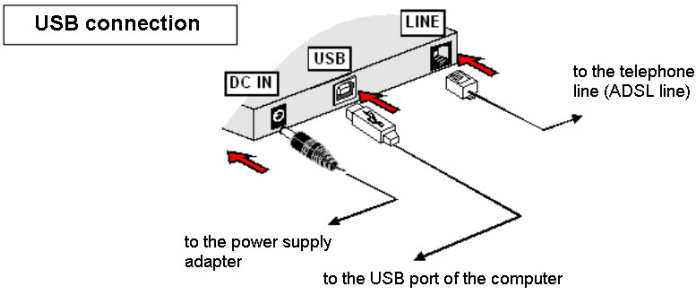
Connect your ADSLModem/Router to the Power Outlet via the Power adapter (that comes with your ADSL Router package).



1.4 Checking Your Connections

Please check your connections before proceeding.





1.5 Powering On

- Power on the Power Outlet that is connected to your ADSL Modem/Router.
- Power on your Computer(s)/Notebook(s).

Please proceed to **2.**

2: Configuring Your Ethernet Network Card - Installing Your USB Device

If your computer/notebook is connected to the **Ethernet** Port of the ADSL Modem/Router, proceed with section 2.1. If your computer/notebook is connected to the **USB** Port of the ADSL Modem/Router, proceed with **section 2.2 .**

2.1 Configuring the Ethernet Card

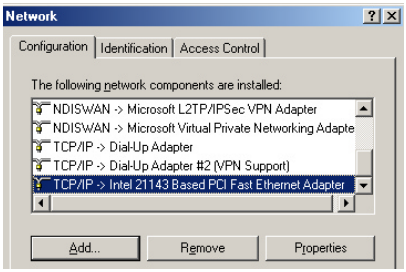
1.Proceed with this section ONLY if your computer/notebook is connected to the Ethernet Port of your ADSL Modem/ Router!

2. The following illustrated screen shots serve only as examples. For any dissimilarities, please follow closely the instructions prompted on your Computer.

2.1.1 For Windows® 98 and Windows® ME

i From your Windows desktop, right-click on the icon **My Network Places** and select Properties.
Or, from the menu **Start->Settings->Control Panel,** double click on the icon **Network**.

ii From the tab **Configuration**, select **TCP/IP**-> **xxx** where **xxx** refers to the model of your Ethernet Card that is connected to your ADSL Modem/Router.
Click **Properties**.

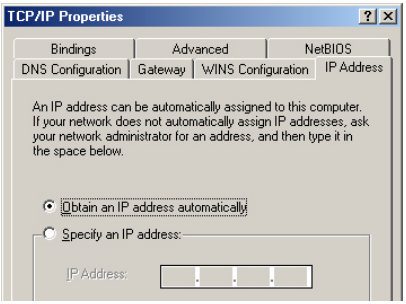


(This screen shot uses the **Intel 21143** card model as an example)

iii Click the IP address tab. Select the option **Obtain an IP address automatically** and click **OK.** Click **OK** again to save the settings.

Ensure that your ADSL Modem/ Router is powered on. Restart your system.

Proceed to section **3**.


TCP/IP Properties
Bindings
Advanced
NetBIOS
DNS Configuration
Gateway
WINS Configuration
IP Address
An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.
Obtain an IP address automatically
Specify an IP address:
IP Address:

2.1.2 For Windows® 2000 / Windows® XP

i. Windows® 2000:

a) From your Windows desktop, right-click on the icon **My Network Places** and select **Properties**.

b) Or from the menu **Start->Settings->Control Panel,** double click on the icon **Network and Dial-up Connections**, right-click on the **Local Area Connection** icon and select **Properties**

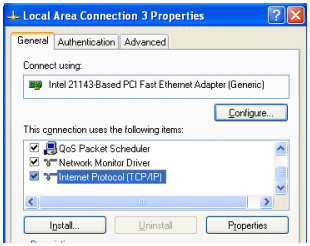
Windows® XP:

(Instructions are based on default Start menu option)

a) From your Windows desktop, click **Start > All Programs > Accessories > Communications > Network Connections.**

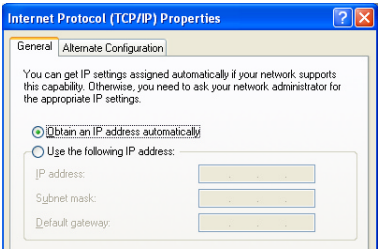
b) Right-click on the **Local Area Connection** icon that reflects the model of your Ethernet Card that is connected to your ADSL Modem/Router and click **Properties**.

ii. Ensure that the field **Connect Using** indicates the model of your Ethernet Card that is connected to your ADSL Modem/Router. (This is important especially if you have more than one **Local Area Connection** icons displayed at the **Network and Dial-up Connections / Network Connections window**. Ensure that you have selected the correct one.) Select **Internet Protocol (TCP/IP)** and click Properties**.**



(This screen shot use an **Intel 21143 Fast Ethernet** card model as an example)

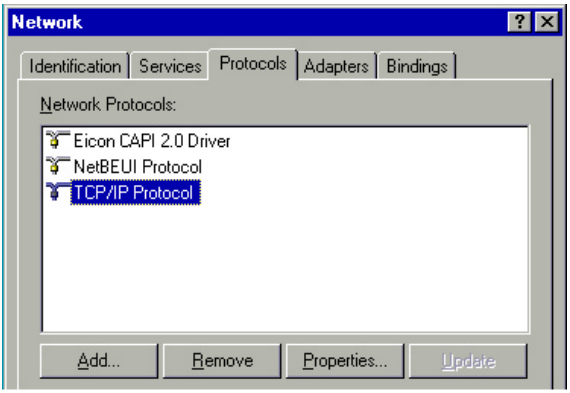
iii. Select the option **Obtain an IP address automatically** and click **OK.**
Click **OK** again to close.
Ensure that your ADSL Modem/Router is powered on. Restart your system.


Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:

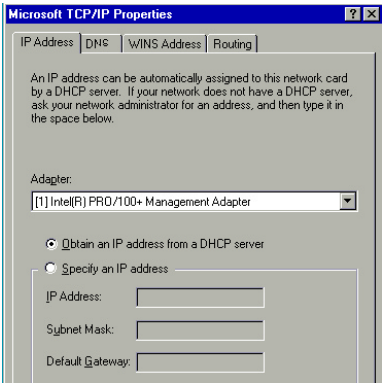
Proceed to **3**.

2.1.3 For Windows® NT 4.0

i From your Windows desktop, right click on the icon **Network Resources**. Select **Properties**.
ii From the tab **Protocols**, select **TCP/IP**. Click on **Properties**.



iii. Select the option **Obtain an IP address from a DHCP server** than click **OK.** Click **OK** again to close.
Ensure that your ADSL Router is powered on. Restart your system.


Microsoft TCP/IP Properties
IP Address
DNS
WINS Address
Routing
An IP address can be automatically assigned to this network card by a DHCP server. If your network does not have a DHCP server, ask your network administrator for an address, and then type it in the space below.
Adapter:
[1] Intel(R) PRO/100+ Management Adapter
Obtain an IP address from a DHCP server
Specify an IP address
IP Address:
Subnet Mask:
Default Gateway:

Proceed to **3.**

2.1.3 Per MAC® OS X

i From the Apple menu, click on **Apple->System Preferences -> Internet**.

ii Ensure that in the field **Show** the **Integrated Ethernet**, connected to the Modem/Router ADSL is selected. In the field **Configure** select **Use of DHCP** than click on **Apply now** to save the new system configuration.

Ensure that your ADSL Modem/Router is powered on.
Restart your system**.**

Proceed to **3.**

2.2 Installing Your USB Device

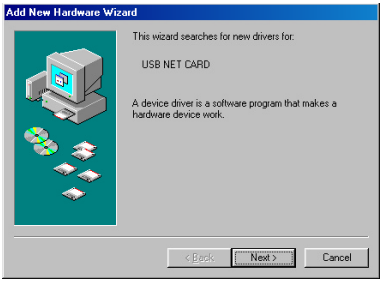
1. **Proceed with this section ONLY if your computer/notebook is connected to the USB Port of your ADSL Modem/Router!**
2. **The following screen shots illustrated serve only as examples. For any dissimilarities, please follow closely the instructions prompted on your Computer/Notebook.**
3. **For Windows® 98 SE users, you may be prompted for your Windows CD-ROM. Have it ready by your side.**

2.2.1 Installing the USB Driver - For Windows® 98 and Windows® 98SE

i. Power on your computer to start Windows.

ii. Place the **Installation CD** into your CD-ROM Drive.

iii. Select **Search for the best driver for your device (Recommended)** option and click **Next**.


Add New Hardware Wizard
This wizard searches for new drivers for:
USB NET CARD
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

Add New Hardware Wizard
What do you want Windows to do?
Search for the best driver for your device. (Recommended).
Display a list of all the drivers in a specific location, so you can select the driver you want.

iv. Click **CD-ROM drives** option and click **Next.**

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
Floppy disk drives
CD-ROM drive
Microsoft Windows Update
Specify a location:
A:\
Browse...
< Back
Next >
Cancel

v. Click **Next** to proceed installation with the indicated driver.

vi. Click **Finish** to complete the USB driver installation.

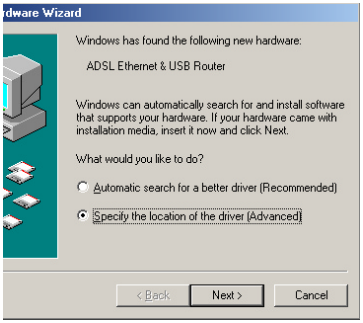
vii. Restart your system when prompted.

Proceed to **3**.

Depending on your system configurations, you may be prompted for your Windows CD-ROM during installation. At the prompt, replace the **Installation CD** in your CD-ROM Drive with your **Windows CD-ROM** and click **OK**.
At the **Copying Files** dialog box, enter the path of your Windows CD-ROM and click **OK**.

2.2.2 Installing the USB Driver For Windows® Me

i. Power on your computer to start Windows.
ii. Place the **Installation CD** into your **CD-ROM** Drive.
iii. At the following prompt, select **Specify the location of the driver (Advanced)** option and click Next**.**


dware Wizard
Windows has found the following new hardware:
ADSL Ethernet & USB Router
Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next.
What would you like to do?
Automatic search for a better driver (Recommended)
Specify the location of the driver (Advanced)
< Back
Next >
Cancel

Add New Hardware Wizard
Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected
Search for the best driver for your device. (Recommended)
Removable Media (Floppy, CD-ROM...)
Specify a location:
A:\
Browse
Display a list of all the drivers in a specific location, so you can select the driver you want.
< Back
Next >
Cancel

iv. Click **Removable Media** option and click **Next.**
v. Click **Next** again to proceed installation with the indicated driver.
vi. Click **Finish** to complete the USB driver installation.
vii. Restart your system when prompted.

Proceed to **3.**

2.2.3 Installing the USB Driver For Windows® 2000

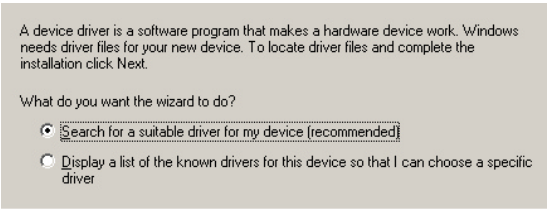
i. Power on your computer to start Windows.

ii. Place the **Installation CD** into your **CD-ROM** Drive.

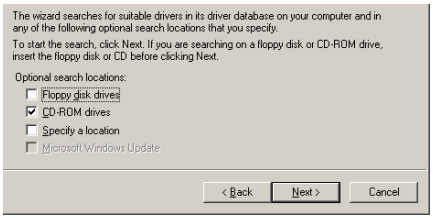
iii. At the following prompt click **Next.**

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install a device driver for a hardware device.

iv. Select **Search for a suitable driver for my device (recommended)** then click **Next**.

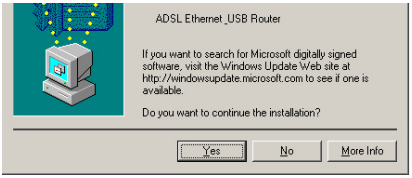

A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver

v. Select **CD-ROM drives** then click **Next**.


The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy disk drives
CD-ROM drives
Specify a location
Microsoft Windows Update
< Back
Next >
Cancel

vi. At the following prompt click **Next**, to proceed to the installation of the indicated driver.

vii. You may be prompted with digital signature dialog box. (This happens when Windows detects your driver as a new version). Click **Yes** to proceed with the installation).


ADSL Ethernet_USB Router
If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.
Do you want to continue the installation?
Yes
No
More Info

viii. Click **Finish** when prompted.

Proceed to **3.**

2.2.4 Installing the USB Driver For Windows® XP

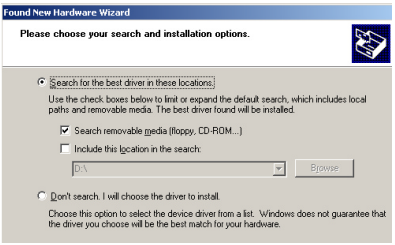
i. Power on your computer to start Windows.

ii. Place the **Installation CD** into your **CD-ROM** Drive.

iii. At the following prompt **Install from a list or specific location (Advanced)** option and click Next.

Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
USB NET CARD
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

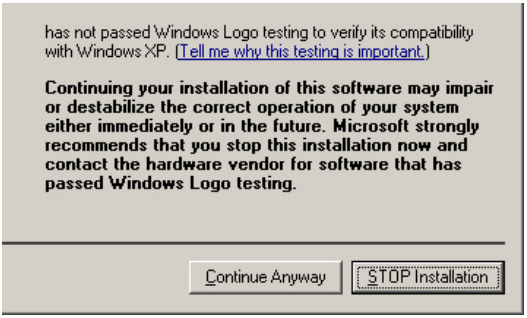
iv. Click **Search removable media** option and click **Next**.


Found New Hardware Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
D:\
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.

v. Click **Finish** to complete the first stage of the USB driver installation.

vi. Ripeat steps **ii** e **iii**.

vii. You may be prompted with **Hardware Installation dialog box**. (This happens when Windows detects your driver as a new version). Click **Continue Anyway** to proceed with the installation.


has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

viii. Click **Finish** when prompted.

Proceed with **3.**

3. Configuring your WEB Browser

3.1 Internet Explorer

i. From your Windows desktop, double-click on your Internet Explorer icon to launch your Browser.

ii. From the Menu, click **Tools** and select **Internet Options...**

iii. Select the **Connection** tab. Click the field, '**Never dial a connection**'. This option will be grayed off if you have not installed an analog modem on your computer/notebook before. Proceed with **3.1 iv**).

iv. Click the **LAN Settings**... button. Ensure that your **Proxy Server** is not enabled.

v. Click on **OK** to close the dialog box.

You may now proceed to **section 4** to establish your Internet connection.

3.3 Netscape® Navigator

i. From your Windows desktop, double-click on your Navigator icon to launch your Browser

ii. Depending on your Netscape versions, carry out one of the following instructions:

Click **Options > Network Preferences**. Select Proxies. Ensure that the **No Proxies** option is selected.

OR

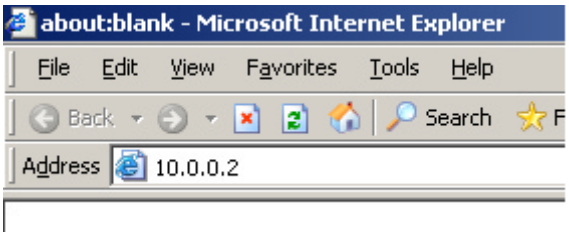
Click **Edit > Preferences**. Select **Advanced** and click **Proxies**. Ensure that the option **Direct Connection to the Internet** is enabled.

iii. Click on **OK** for changes to take effect.

You may now proceed to **section 4** to establish your Internet connection.

4. Connecting to the Internet

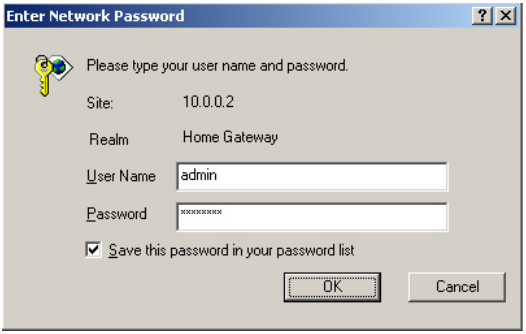
i. From your Internet Browser, key in **http://10.0.0.2** at the address bar and hit <Enter>.



ii. You will be prompted for the **username** and **password** to login to the Web Management. Enter

admin for the username

password for the password field.



Click **OK**.

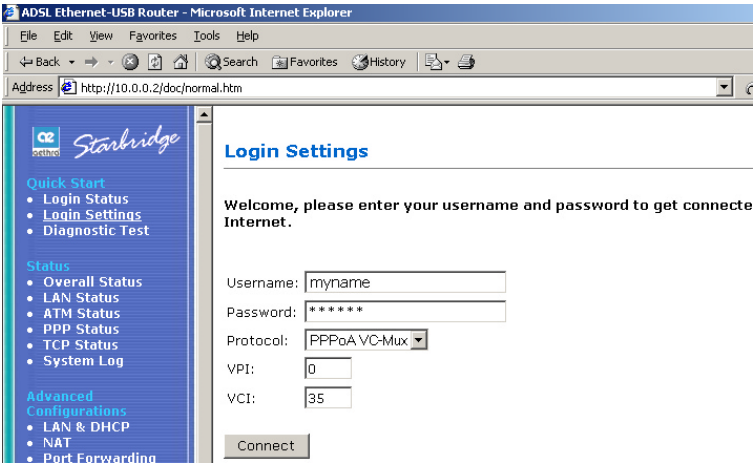
ATTENTION - This username and password is not the same as the username and password given by your ADSL Service Provider to connect to the Internet.

iii The **Login Setting** Page will be displayed

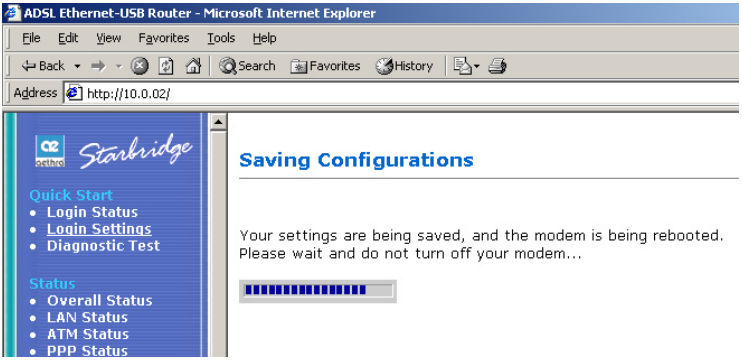
iv. Enter the relevant information given by your ADSL Service Provider:

Username
Password
Protocol
VPI
VCI

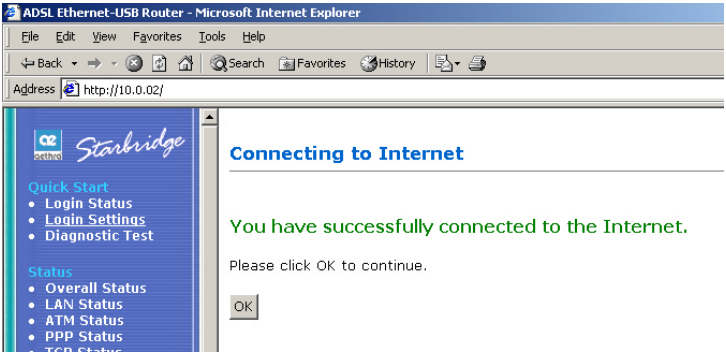
Click **Connect** to start the connection.



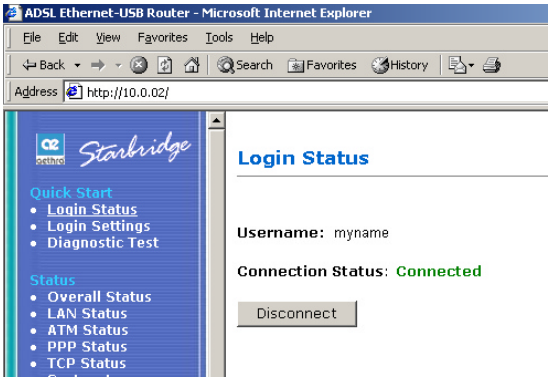
v. The Modem/Router will continue with the Saving Configurations procedure and with a reboot.



The ADSL connection will be activated and then the Login to the Provider, using Username e Password of the Login Settings.
Wait for the following window.
(In case of a too long delay, click on “Login Status”)



Click OK



vi. You are now connected to the Internet.

FREQUENTLY ASKED QUESTIONS

D: The "page cannot be displayed" is prompted when I launch my browser.

R: **i.** Ensure that you are using the Ethernet Network cable that comes with your ADSL Ethernet Modem package to connect to the ADSL Modem/Router.

ii. Ensure that, in the address bar of your browser, the IP address is 10.0.0.2.

D: The DSL light keeps on blinking consistently.

R: i. Ensure that your ADSL line has already been activated by your ADSL service Provider.

ii. Ensure that you have connected the telephone cable as illustrated in Section 1.2. If the problem persists, please check with your ADSL Service Provider.

D: The DSL light is on. But I keep getting 'Not Connected' state at the Connection status.

R: i. Ensure that your ADSL line has already been activated by your ADSL service Provider.

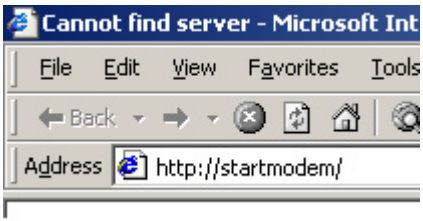
ii. Ensure that you have entered the correct username, password and VPI/VCI at the Login Settings page. Enter again the information and resubmit.

D: Can I connect my ADSL Modem/Router to a Broadband Router (for Multiple-Users)?

R: Yes. The ADSL Ethernet Modem can be connected to a Broadband Router. Please configure your ADSL Modem/Router before proceeding to connect to the Broadband Router

D: How do I configure my ADSL Modem/Router for Broadband Router?

R: From the Internet Browser, key in **startmodem** (or the IP address **10.0.0.2**) at the address then hit <Enter>.



After every change save the configuration and restart the Modem/Router. During the process of restart, the DSL indicator will go off, followed by the ETH/ACT indicator. Once you see the ETH/ACT indicator lights up and DSL indicator flickers, it meas that the restart process is completed. Please refer to your Broadband Router documentation on how to connect to the Internet.

D: How can I cancel all my changes done and saved on the ADSL Modem/Router, and go back to the factory configuration?

R: From the back of your ADSL Modem/Router, activate the reset button. For details on how to activate the reset, please refer to the footer note on page 7.

D: Is VPN client supported in ADSL Modem/Router?

R: Not all VPN clients are supported using ADSL Modem/Router. For details, you may check with your Modem manufacturer.